IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Rudnick et al. Examiner: D. Isabella Serial No.: 09/271,304 Group Art Unit: 3738

Filed: March 17, 1999 Docket: 498-67 CON 2

For: NESTED STENT Dated: May 16, 2000

Date Label No.

Thereby certify that on the date indicated above I deposited this paper or fee with the U.S. Postal Service and that it was addressed for delivery to the Assistant Commissioner of Patents. Washington, D.C. 20231 by "EXPRESS MAIL POST OFFICE to ADDRESSEE" service

Name (Print) (Signature)

Assistant Commissioner for Patents Washington, DC 20231

DECLARATION OF PRIOR INVENTION IN THE UNITED STATES TO OVERCOME A PATENT UNDER 37 C.F.R. § 1.131

Sir:

- We, James J. Rudnick, and Dominik M. Wiktor, both citizens of the United States, residing respectively at 11 Clearwater Court, Mahwah, NJ 07430 and 6441 3rd Palm Point, Saint Petersburg, Florida 33706-2123, are joint inventors of the above-identified application.
- At the time of the invention thereof we were working for Meadox Medicals, Inc.,
 assignee of the present application. With respect to the inventor Rudnick, I was an
 employee of Meadox Medicals, Inc. and with respect to inventor Wiktor, I was a consult

for Meadox Medicals, Inc. We submit this declaration to establish completion of the invention set forth in this application in the United States at a date prior to April 1, 1994, i.e. the effective date of U.S. Patent No. 5,876,432, Lau et al. (hereinafter the '432 patent), which was cited by the Examiner in an Office Action mailed December 29, 1999.

- 3. From the documents submitted herewith and as set forth hereinbelow, it can be seen that the invention was completed in the United States before April 1, 1994 which is a date earlier than the U.S. filing date of the '432 patent. Completion of the invention prior to April 1, 1994, is shown by conception and actual reduction to practice of the invention as evidenced by construction and testing of a nested stent.
- 4. To establish conception and reduction to practice, i.e. completion of the invention at a date prior to April 1, 1994, the following documents being submitted as evidence:
 - a. A Meadox Medicals, Inc. invention disclosure (Exhibit A) bearing dates signed by the inventors and dates signed by witnesses prior to April 1, 1994, the filing date of the '432 patent. (The dates have been redacted to prevent their unnecessary disclosure.) That invention disclosure describes the nested stent of the present invention where the benefits of the device are described as follows: "all of the above being accomplished by providing maximum monofiliment wire density in a minimum volume of space by proper nesting of convolutions of formed wire over a mandrel." In an attachment to that invention disclosure, a drawing of the nested

stent is shown. The drawing shown in the attachment to the invention disclosure is substantially similar to the drawings shown in Figures 2 and 8 of the present application. This invention disclosure evidences conception of the invention prior to April 1, 1994.

- b. A confidential report entitled "Stent Analysis Summary" (Exhibit B) prepared by Product Genesis Inc., an engineering and design firm, which was retained by assignee, Meadox Medicals, Inc., to conduct an engineering analysis of the nested stent which is the subject of the claims of the present application. That report bearing a final issue date prior to April 1, 1994 (also redacted), includes a drawing labeled Figure 2-2 "Stacked Packing Geometry" showing a drawing of the nested stent of the present invention. Further and as evidence of completion of the invention, the report of Exhibit B includes photographs at Figures 4-4 through 4-7 showing the constructed nested stent of the present invention. Also as an attachment to this report are two spreadsheets showing design variables for construction of the nested stent of the present invention. Certain of these design variables have been included in the present application, being incorporated into Table 1.
- The materials submitted herewith establish that the invention was completed, i.e.
 conceived and reduced to practice at a date prior to April 1, 1994, the filing date of the
 '432 patent.

- This declaration is submitted in a response to a first Office Action issued by the Examiner
 and is therefore believed to be timely filed.
- 7. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information or belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

DATED:	
	James J. Rudnick
DATED: MAY 18 2000	Donne & bray
	Dominik Wiltran

GIVE TITLE OF YOUR IDEA:

Comments:

HI-STRENGTH HI-WIRE DE	NSITY INTRAVASCULAR	EXPANDABLE STENT
DESCRIBE YOUR IDEA IN DETAIL AND Intraluminal Stent character compressive forces, also to between wires after deployme above being accomplished by in a minimum volume and spac wire over a mandrel	ized by its ability t discourage encroachme nt, yet maintain full providing maximum mon e. by proper nesting	o resist external int of cell ingrowth flexibility; all of the pofilament wire density
STATE ADVANTAGES OVER EXISTING Presently used and known Ste by Wiktor, although similar high strength nor tight wire	ents, specifically as	onstruction do not provide
	ertries made in Laboratory Notabooks, mumber, and page number, # applicable. (, subsequer thus reduced a thee ructed and expanded ovather with a memo sent	nt meeting at MEADOX retical idea to a a working ret a balloon, additional t to MEADOX iktor
SIGNATURE(S) OF INVENTOR(S) DATE	PRINT NAME OF INVENTORIS	HOME ADDRESS
A On 104 -	Dominik M. Wiktor	4 Culin Drive Cranford,NJ 07(
James Pudnot	James Rudnick	74 Moore Ave, Waldwick,NJ 07463
WITNESSED AND UNDERSTOOD BY:	Anthony M. Spadaro Prin	nt Name Date:
PPROVED FOR FURTHER PATENT REVIEW: Yes No		Date:
Yes No	Vice	President Date:
EXECUTIVE COMMITTEE REVIEW:		
Approved for Patentability Opinion		President Date:
Approved for Patent Application	Thomas Geldelle	President Date:
Other (explain below)		President Date:

ATTACH NT TO INVENTION DISCLOSURE FORM

BOOK NO.:	PAGE NO.: / of /	PROJECT NO.:	DATE:
	NOTH - HI WI AVASCULAR	/	STENT
1. TANTALU	m WR= PR	=form=0 ov	ER CEACS
BTHER PIRH GEARS		,	10 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×
MANDR.	72	4774	ORMED GEARS
James J Rulas JAMES J. RUBNICH SOMMENTOR DOMINIK M. NIKT.	DATE W	,	DATE



Engineering Design and Product Development

300 Bent Street Suite 200 Cambridge, MA 02141 617 661 3552 FAX 617 661 0126

Stent Analysis Summary

FINAL ISSUE

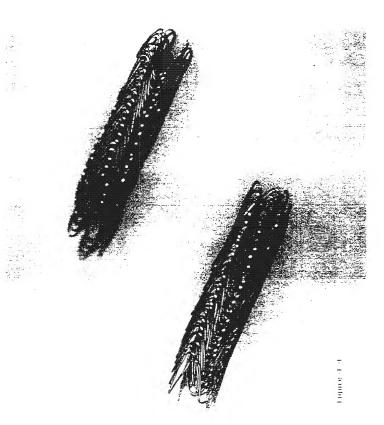
For: Meadox/SurgiMed 112 Bauer Drive Oakland, NJ 07436 1-800-221-1542

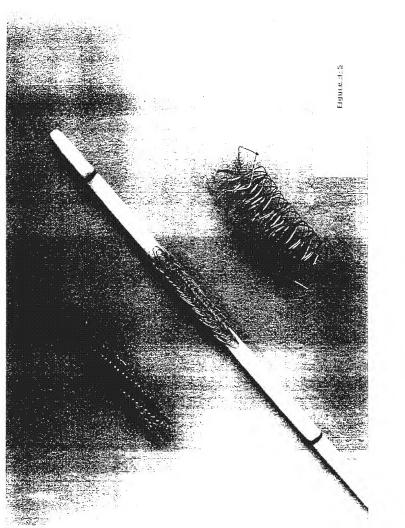
By: Product Genesis, Inc. 300 Bent Street, Suite 200 Cambridge, MA 02141 617-661-3552

CONFIDENTIAL

This report contains proprietary information Not for general distribution Do not duplicate P

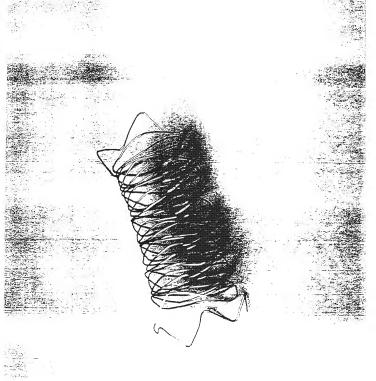
Figure 2-2: Stacked Packing Geometry







Cigue 1 6



1 1 1 1 1 1 1 1 1 1		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(6.6.9.) (6.9.9.) (6.9.9.)	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,0 0.020	15.1 13.0 13.0 13.0 13.0 13.0	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Z 0 N + 10 N	X bert 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(1b) 0.105 (1b) 0.001 (1b) 0.001 (1b) 1.006 (1c) 1.1000 (1c) 1.1000	98			Equation 8.	1000 1000	0 0008 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 /	X X X	0.00421641	Equation #	

, 7

Dasign Variabless Dasign Variabless Dasign Variabless District Variabless Dasign V			I		Vakios					
1 1 1 1 1 1 1 1 1 1					Vakion					
			Ì	% lost Optimal	8	-				
	-			C P	5	6.	3	z	% lost	0
	1.000		İ	0.010	0 011	-25.6,72.8	14.2	12	44.8	8173
7 a 7	-		Ī						***************************************	-
a	Ť			0.020	0.021	.25 8 72 8	7.1		44.6	4200.
0 1	100					Ì				
	Ť		-			Ī				
1 5	T									
15	T		İ			Ì				
	25.6		Ţ							
_		-								
	-			100						
Outputs:	Ī	1	Į,				-		-	
7 63		CONSIDERING:	63							
The stores	1500	0 044	BC G							
2	T	1			Anola	Ī				
Ė					Values	-88-	-0.15			
1 A C) open	1				:(6) 10	-57	11.0			
		ļ	ř			.52.	0.08			
2		0	_			გ	.0.05			
	72.8	90	-	Solve (9) =0:	.0 0001441	52.	-0.02	-		
i		0	35			45*	10.0			
1			1	-		85*	0.00			
10 [#]	27.403									
With Mes	0.674	1	İ							
11 % lost	44.0		I							
(lb)	0.166		Ì			1				
1	-		1							
213		-	1	24	200	47 244				
27 kg	88	L	İ	25	N/c	0 000	-			
	-									
Polni A				-		-				
V.	0.000					-				
V2 [19]			1							
MAY TO	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Ţ				***************************************	-		
			Ī					-	-	
0	Ť									
23 4 (56)	352				Ingonometric v	vskies.				
•	-	67,000	Treace		cos thete ci	0.902	-			and the second second
			Ī		Sin(Sheta ci)			-	-	
Point B	00.0	-	İ		cos mete op)	0 300				
100	0 0		Į		The same of the				-	-
100		l	Ī	Foration #:	Load Avess and	and Centrolds			E gueston #	
(q.)74				13	Areal	8.721E-05	*	0.00130887	=	
				50	Areaz	0 00031483	x2	0 003	9	
	5813			13	Area3	8.721E 05	K3	0 00130687		
8	2824									
([88])		e 87,000	Fresca							
						-				